Diagnostic Products
2009 Catalog

BOSCH
Invented for life

Introducing **Bosch Wheel Service!**

Bosch now offers the best in Wheel Service Equipment for the aftermarket! With the acquisitions of Beissbarth and Accu-turn, you can now buy the only aligners, tire changers and wheel balancers in the industry good enough to carry the Bosch Brand. For more information visit us on the web at **www.boschdiagnostics.com** or call **800-551-2228**.

New from **Bosch Diagnostics!**

F00E900178

ACS 615 Air Conditioning Refrigerant Handling System

The fully-automatic Bosch ACS 615 represents the latest in technology for air conditioning service. It's precise and technician friendly, maximizing your shop efficiency and productivity.

- Fully compliant with the new SAE J2788 standard
- Innovative revolving control turret houses easy-to-read 4" gauges, large 4 x 20 LCD display and intuitive keypad
- Fully-automatic programming for increased shop efficiency
- Easy-access filter for reduced maintenance time
- Wireless remote technician notification option for optimal tech efficiency
- Optional vehicle refrigerant / oil capacity database to reduce comebacks

Table of Contents

Scan Tools

J2534 Reprogrammers 4
Flasher Pro 5
Flasher LT 6
General Motors MDI 7
Mastertech VCI 8-9
MTS 3100 Mastertech 10-11
Tech 2 12-13

KTS Series 14
KTS 200 14-15
KTS 570 16
KTS Kits 17

Engine Analyzers

MTS 5200 Engine Analyzer. 18-19
MTS 5200 Kits 20
FSA 740/720. 21-22

Digital Multimeter

MMD 540H Hybrid Multimeter 23

Electrical System Diagnostic Analyzer

BAT 151 24-25

Noise, Vibration and Harshness (NVH) Analyzer

MTS 4100 NVH Analyzer 26

Shop Foreman Pro

Shop Foreman Pro. 27

J2534 Reprogrammers

As technology advances, shop owners and technicians should be thinking about what tools are required to remain successful, profitable and ahead of the competition. ECU reprogramming is one such service that has moved from luxury to necessity to complete the repair and satisfy the customer.

It is estimated that 60+ % of domestic vehicles from 1996 to present have available updated Factory (OEM) ECU calibrations. This affects more than 64 million vehicles in the United States alone. The newer calibrations can address drivability concerns, false DTC's and inter-ECU networking operations.

Bosch Diagnostics offers a full line of J2534 capable reprogramming tools to suit the needs and price level of every shop. From manufacturer specific reprogramming to full diagnostic capability, Bosch Diagnostics has the tools to keep you on the cutting edge.

Mastertech VCI

The Mastertech VCI combines the award-winning ScanTest software with an innovative, wireless PC to vehicle connection.

General Motors MDI

Authentic General Motors MDI vehicle communication interface for wireless J2534 reprogramming.

Tech 2

Authentic General Motors software provides the most comprehensive diagnostics software for General Motors vehicles 1992-current.

Flasher Pro

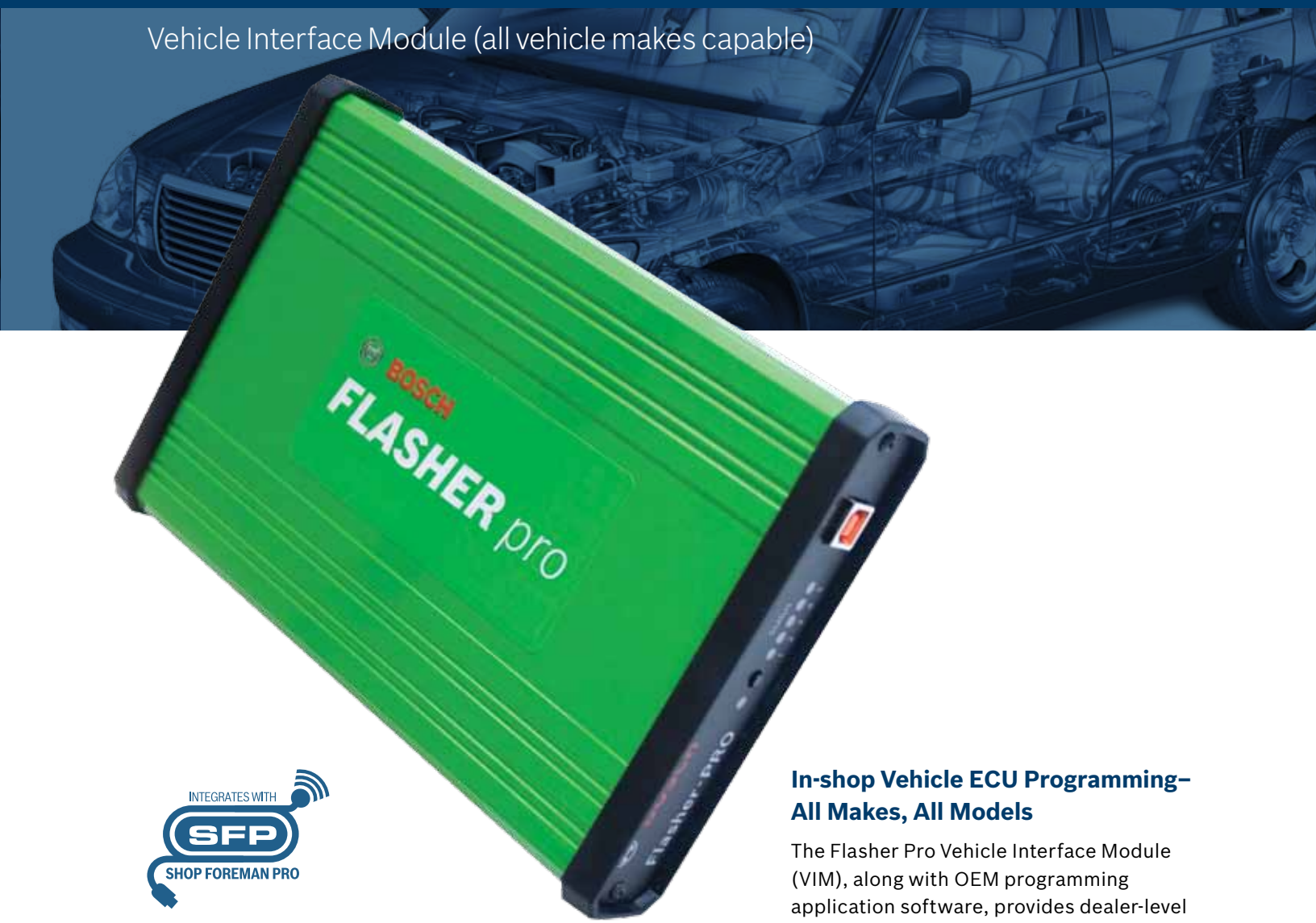
The Flasher Pro provides a complete hardware solution to reprogram all J2534-compliant ECU's.

Flasher LT

The Flasher LT offers manufacturer specific reprogramming, lightning fast reprogramming capability and affordable pricing.

Flasher Pro

Vehicle Interface Module (all vehicle makes capable)



INTEGRATES WITH SFP SHOP FOREMAN PRO

In-shop Vehicle ECU Programming– All Makes, All Models

The Flasher Pro Vehicle Interface Module (VIM), along with OEM programming application software, provides dealer-level programming capabilities for all makes, all models at a fraction of the cost of a proprietary OEM dealer diagnostic tool.

Flasher Pro

Part No. F00E900161

A

PC/Host Interface:
RS232 or USB connection to a PC for vehicle programming and firmware updates.

Vehicle Interface (all makes, all models)
Connects to vehicle OBDII J1962 DLC via a cable and supports the following protocols.

- CAN/ISO 15765/GMLAN
- CAN (Dual or Single Wire)
- Ford SCP (J1850PWM)
- GM Class2 (J1850VPW)
- KWP2000 (ISO9141/14230)
- Chrysler SCI (J2610)

Pre-2004 vehicles (1996 – 2003) may use an OEM proprietary connector requiring a special cable adapter.

Flasher LT

Vehicle Interface Module (vehicle make specific)

Increase productivity with faster Flash programming times!

The Flasher LT offers users a J2534 compliant device at a low cost. The device features a direct connection to a laptop or desktop PC via a USB2.0 full speed connection. All of the electronics are contained in the OBD-II connector shell, making for a compact and rugged vehicle communications solution.

The Flasher LT is powered by the USB interface, so there's no reinitialization necessary if the device is unplugged from the vehicle interface.

Description and Part No.	Re-programming supported*	Vehicles supported
Flasher LT–GM Part No. F00E900075	ECU and security key relearn using General Motors' TIS, TIS2000 and TIS2WEB service	All GM of J1850PWM and CAN-equipped vehicles
Flasher LT–Ford Part No. F00E900076	ECU and PATS key programming using motorcraftservice.com	All Ford of J1850PWM and CAN-equipped vehicles
Flasher LT–Chrysler Part No. F00E900077	ECU programming using techauthority.com	All Chrysler of J1850PWM and CAN-equipped vehicles
Flasher LT–Import Part No. F00E900078	ECU using Toyota TIS and EBAHN for VW and Audi-equipped vehicles	All ISO9141, KWP2000 and CAN-equipped vehicles from Toyota, VW and Audi-equipped

*Requires the use of OEM software purchased from the OEM website

General Motors MDI

Authentic General Motors MDI vehicle communication interface for wireless J2534 reprogramming.

The General Motors MDI allows for ECU reprogramming of all General Motors manufactured vehicles. Dealer level capability at an affordable price. Handles all current General Motors reflashing protocols.

General Motors MDI (Multiple Diagnostic Interface) for wireless ECU reprogramming utilizing J2534. Hardware kit only.

Note: Requires software subscription to General Motors SPS (Service Programming System), which must be purchased separately via the ACDelco Tech Connect website.

F00K108322 GM MDI OEM Tester

*Requires the use of OEM software purchased from the OEM website

Mastertech VCI

Scan Diagnostics

OE-level Mastertech diagnostics for the PC

INTEGRATES WITH SFP SHOP FOREMAN PRO

Wireless ScanTool Connectivity

The Mastertech VCI combines the award-winning Scan Test software with an innovative, wireless PC to vehicle connection.

Scan Test Solutions

OE-level Scan Test

Graphical Display

J2534 ECU Reprogramming

A
OEM Technology
Leading edge platform for future vehicle communication designs

B
Simple Vehicle Interface
Utilizes industry-standard SAE J-1962 16-pin connector with no special “keys” or adapters required for OBD II vehicles.

C
PC Connectivity
Operates with a Windows PC through either wireless, Ethernet or USB connection.

D
Graphical User Interface
Award-winning Shop Foreman Pro user interface is accessible via a desktop, laptop or tablet PC.

E
User-Defined Controls
Custom keypad controls to optimize tablet, laptop or keyboard operation.

F
Flash Memory Updates
Internet-based vehicle software applications and tester firmware.

Essential Features

- Award-winning Scan Test software covering model years 1996 to current
- Fully OBD II compliant, including Controller Area Network (CAN) protocols
- Support for Powertrain, Chassis and Body systems
- Industry-standard wireless hardware
- J-2534 compliant for OE ECU reprogramming*
- Designed for new MVCI vehicle software designs utilizing D-PDU API

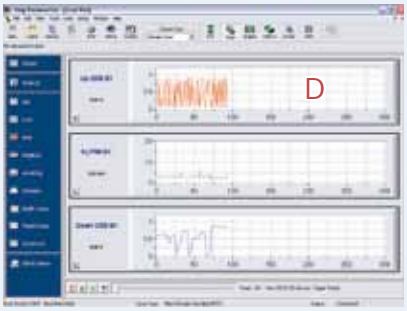
*GM, Ford, Toyota (now), other OEM makes in 2009

F00K108106	Mastertech VCI OBD II Kit
F00E900062	Domestic Region Software
F00E900063	Asian Region Software
F00E900064	Domestic/Asian Region Software
F00E900057	Panasonic Tablet PC with DVD

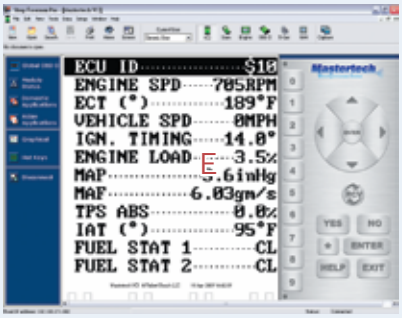
Optional Shop-Rugged Tablet PC

What Makes the Mastertech VCI Different?

- PC Architecture
- High performance processor
- D-PDU and J2534 compliant
- Data Logging
- Allows for multiple communication links



- Secure access to vehicle networks
- Industry standard wireless communication
- Introduced in OEM dealerships



MTS 3100 Mastertech

Scan Diagnostics

OE-level scan tool diagnostics in the palm of your hand

INTEGRATES WITH SFP SHOP FOREMAN PRO

The Original Multifunction Tester

The MTS 3100 is the tool that revolutionized the repair industry, combining comprehensive OE-level scan diagnostics, automotive scope and meter functions in one handheld package. When your business depends on maximum productivity, don't settle for anything less.

3 Tools in 1

OE-level Scan Test

Digital Storage Oscilloscope

Automotive Multimeter

MTS 3100 Mastertech

A
High Capacity Mass Storage Cartridge
Reprogrammable application cartridge contains application software updated through a PC.

B
Custom Graphics Display
High visibility backlit LCD screen displays up to 16 PIDs, including custom list, LED, bar graph and line graph modes.

C
Logical Keypad
23-key hydrocarbon-resistant membrane keypad for easy, logical tester navigation.

D
Program Card
Reprogrammable PCMCIA card contains application software updated through a PC.

E
RS232 Serial Port
Connects to a PC enabling Shop Foreman Pro, SPS and application software downloads.

F
Vehicle Serial Data Link
Connects to vehicle DLC, and supports OBDI, OBDII and CAN protocols.

G
Instrumentation Port
Connects additional instrumentation such as meter, scope, and battery tester.

Essential Features:

- Comprehensive vehicle software coverage from model year 1981 to current
- Covers powertrain, chassis and body systems
- Dealer-level coverage including General Motors, Toyota/Lexus and Honda/Acura
- Patented bi-directional control testing
- Fully OBDII compliant including Controller Area Network (CAN) protocols

01001410	MTS 3100 Mastertech OBDII Kit
01002624	MTS 3100 Mastertech Complete Domestic Kit
01002876	MTS 3100 Mastertech Toyota/Honda/Nissan Asian Kit
01002060	MTS 3100 Mastertech Complete Domestic and Asian Kit
01002874	MTS 3100 Mastertech Instrumentation Kit

What Makes the MTS 3100 Mastertech Different?

Fully OBDII/CAN Compliant

Multiplex Network Module Status

Comprehensive OEM-validated Bi-directional Control Testing

Tech 2

Scan Diagnostics

Ideal for General Motors vehicle diagnostics.

The Tech 2 has been an essential tool in General Motors dealerships worldwide since 1997. Now you can put the same dealer software in your shop. When your business depends on maximum productivity, don't settle for anything less.

With additional OEM purchased software, the Tech 2 can be used to diagnose Izuzu, Saab, and Suzuki vehicles. Contact the OEM dealer for software purchase details.

01002668	Tech 2 Starter Kit*
01002398	Tech 2 "Pro" Kit*

*Both kits come with pre-loaded GM scantest software. Additional TIS software must be purchased separately via the AC Delco Tech Connect website.

Complete Solution Components

Tech 2 Scan Tool

Technical Information System (TIS)

Electronic Service Information (eSI)

A
PCMCIA Slots
Reprogrammable PCMCIA card contains application software, updated through a PC.

B
RS232 Serial Port
Connects to a PC, enabling all AC Delco TIS applications.

C
Custom Graphics Display
High visibility backlit LCD screen displays up to 9 PIDs, including custom lists, line graph mode, and hot key access.

D
Technician-Friendly Design
Adjustable hand straps facilitate one-handed operation.

E
Logical Keypad
29-key hydrocarbon-resistant membrane keypad for easy, logical tester navigation.

F
Vehicle Serial Data Link
Connects to vehicle DLC and supports GM OBDI, OBDII and GMLAN protocols.

Essential Features

- Authentic General Motors software coverage from model year 1992 to current
- Covers all powertrain, chassis, and body systems
- Enhanced diagnostics on GMLAN (CAN) vehicles with optional CANdi module
- Patented bi-directional control testing

Additional 32MB card available
02002994-001Card PCMCIA 32Mb VTX

01002844 GM CANdi module kit
(Included in 01002398 kit)

What Makes the Tech 2 Different?

Access to all on-board systems

Multiplex network module status

Enhanced GMLAN

Comprehensive OEM-validated bi-directional control testing

KTS 200

Scan Diagnostics

An inexpensive and easy-to-use scan tool for European/Asian ECU diagnostics.

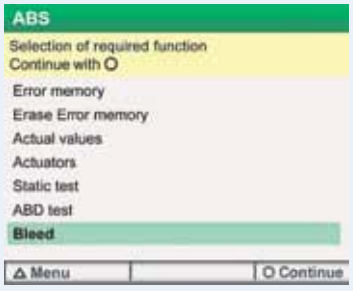
Affordable European and Asian ECU Diagnostics

Diagnosing a wide range of European and Asian vehicles is faster and easier than ever with the new KTS 200. Its compact size, comprehensive software, and fast, intuitive navigation make it an ideal primary or secondary scan tool for all shops. Whether you are currently a European or Asian specialty shop, or are planning to enter the European or Asian repair market, the KTS 200 is the versatile and powerful tool choice that will not break the budget.

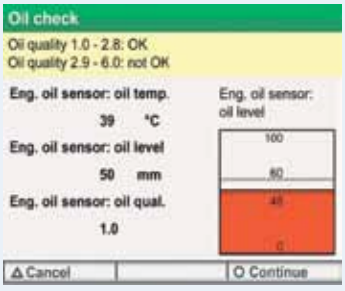
With in-depth ECU diagnostic capability, the KTS 200 is the perfect choice for all your scanning needs. Perform basic scanning functions such as reading and clearing DTCs to advanced bi-directional function tests. Available in 2009 with Domestic coverage!

ScanTest Solutions

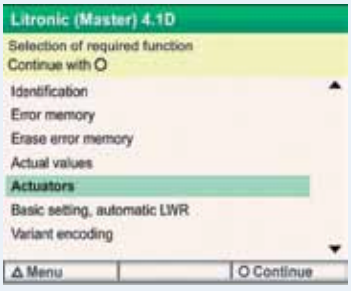
Automatic Brake Bleeding at the Push of a Button



Scan Tool Support for Oil Check Functionality



Precise Adjustment of the Automatic Headlight Leveling Control



A
Complete ECU scan diagnostics

B
Menu Navigation
New, simple menu navigation

C
New Service Opportunities
Inexpensive entry to modern diagnostic capabilities for European vehicles

D
User-Defined Controls
Unit for both left and right handed users

E
ESI[tronic] Software
Powered by ESI[tronic] software in 23 languages

Integrated, software-controlled 16-pin multiplexer connector for fast and easy vehicle communications. OBD II and CAN supported (high speed, medium speed, low speed and single wire)

F00E900091	KTS 200 Base Kit
1987P12201	KTS 200 ESI[tronic] 1 Year Subscription European
1987P12211	KTS 200 ESI[tronic] European Single Update (No Subscription)
1987P12207	KTS 200 ESI[tronic] 1 Year Subscription Asian
1987P12212	KTS 200 ESI[tronic] Asian Single Update (No Subscription)

Essential Features

- Fast, simple, and reliable vehicle identification
- Comprehensive European/Asian market coverage for:
  - Audi
  - BMW
  - VW
  - Mercedes-Benz
  - Volvo
  - Honda (Acura)
  - Hyundai
  - Kia
  - Nissan (Infiniti)
  - Toyota (Lexus, Scion)

The KTS 200 is the ideal choice for:

- Read and clear DTCs
- Access live data/actual values
- Advanced functional tests
- Resetting service intervals
- Oil change
- Tire Pressure Monitor
- Headlight service
- Air conditioning service
- Brake Service
- Initializing sensors after chassis examination
- Installation of accessories (radio, navigation systems, luggage racks, etc.)

Powered by ESI[tronic] software

The car is increasingly becoming a “computer on wheels.” The KTS 200 is supplied with pre-installed, specially developed ESI[tronic] software available in 23 languages.

Choose a continuous software subscription with updates delivered either via DVD or Web (available in 2009) or select a one time purchase option without a subscription — the choice is yours.

KTS Series

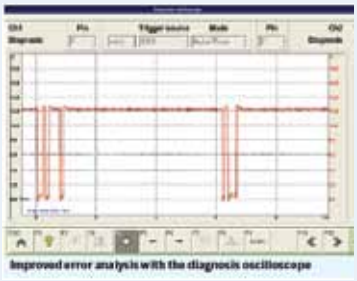
Integrated European Diagnostics

KTS 570 European/Asian Diagnostics

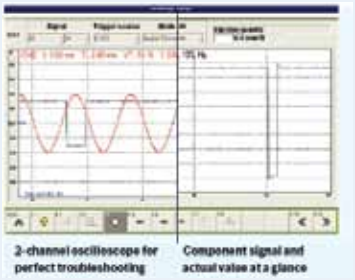
Make your tests convenient and safe with the KTS 570 Wireless

An interfaced module that wireless connects your shop PC or laptop to a vehicle.The KTS 570 is powered by the Software ESI[tronic] and comes with a 2-channel multimeter and 2-channel oscilloscope. The KTS 570 features scan information for European and Asian vehicles. In 2009, additional Domestic software coverage will become available.

Improved 2-channel Measuring Oscilloscope



Improved error analysis with the diagnosis oscilloscope



2-channel oscilloscope for perfect troubleshooting

Component signal and actual value at a glance

Convenient

- The Bosch-specific Bluetooth USB connection

Fast

- Easy connection of measuring technology for troubleshooting

Safe

- Software controlled change adapter with cable adapter recognition

F00K104992	KTS 570 Base Kit
F00E900093	KTS 570 ESI[tronic] European Software - 1 Year Subscription
F00E900094	KTS 570 ESI[tronic] European Software - 3 Year Subscription
F00E900095	KTS 570 ESI[tronic] Asian Software - 1 Year Subscription
F00E900096	KTS 570 ESI[tronic] Asian Software - 3 Year Subscription

Essential Features

- Bluetooth Wireless and USB Connectivity
- 2 Channel Oscilloscope
- 2 Channel Multimeter
- 16-pin DLC
- Universal cable
- Comprehensive European/Asian market coverage for:
  - Audi
  - BMW
  - VW
  - Mercedes-Benz
  - Volvo
  - Honda (Acura)
  - Hyundai
  - Kia
  - Nissan (Infiniti)
  - Toyota (Lexus, Scion)

Your Advantages

- Ready for the future with integrated change adapters
- Radio technology for more mobility in workshops
- Extended measuring technology for comprehensive troubleshooting in vehicles

Powered by ESI[tronic] software

The only way for workshops to offer all services for innovative vehicles is through professional diagnostics and information systems. In order to accomplish this, the KTS series is powered by ESI[tronic] Software, which provides the workshop with comprehensive information for finding and eliminating defects. ESI[tronic] is perfectly synchronized with the KTS Series. Four updates a year make sure that the KTS is always up-to-date.

MTS 5200 Engine Analyzer

Scope/Engine Diagnostics

One handheld solution for complete engine analysis

INTEGRATES WITH SFP SHOP FOREMAN PRO

Comprehensive Engine Analysis

The MTS 5200 is the single solution for all your engine analysis needs. Now you can have the power of the "big box" analyzers in one portable hand-held tool.

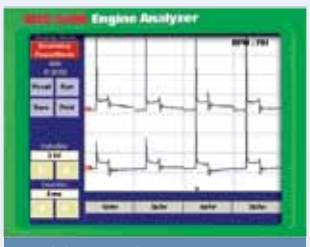
4 Tools in 1

Graphing Multimeter/DVOM

4-channel Oscilloscope

Base Kit

Ignition Analyzer



Ignition Package

Engine Analyzer

Mechanical Test Package

Start with the basic kit and build the MTS 5200 to fit your diagnostic needs.

MTS 5200 Engine Analyzer

Modular Design

Build the functions as they are needed to make a full function engine analyzer.

Start with a 4-channel oscilloscope and a graphing multimeter.

Next, add the ignition upgrade package and get primary and

secondary ignition support.

Then, add the vacuum, pressure and

A
Auxiliary Connection
Expansion port provides connection for additional instrumentation such as vacuum and pressure probes.

B
Primary Ignition
Primary ignition connection supports high voltage (600 volt) input, which is compatible with all primary ignition signals.

C
Ignition Sync
Single BNC input connection for ignition trigger service—perfect for the #1 cylinder identification.

D
Secondary Ignition
Large screw-on secondary connector ensures a solid electrical connection.

E
Power Connection
12 volt power connection is up and out of the way. Power the analyzer from the vehicle, with AC/DC adapter or the internal battery pack (NiMH).

F
DVOM
DVOM connections up front allow easy lead attachment and use 3/4" spacing so all of your standard leads will work.

G
Color Display with Touchscreen
Large 8" high resolution color display with built-in touchscreen technology.

H
Brightness Adjustment
Brightness adjustment at your fingertips.

I
Local Area Network Port
Allows the MTS 5200 to interface to a PC via a fast ethernet link.

J
Communication Ports
Connects the MTS 5200 to other peripheral devices.

K
Hand Strap
Adjustable strap allows for secure, comfortable and safe handling of MTS 5200.

L
Rubber Cushion Protection
Durable side cushions protect the MTS 5200 from accidents.

Complex Problems...Simple Solutions

Coil On Plug

Good burn time

Painless COP diagnosis displays a waveform in three easy steps

Multichannel Pinpoint Test

Faulty crankshaft position sensor

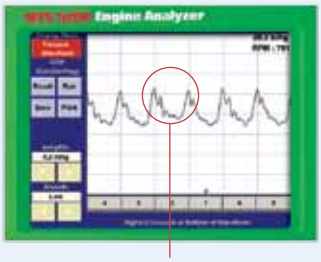
Simplified intermittent diagnosis using the multi-channel sensor display

Cranking KV

Weak coil output

Efficient ignition analysis in less than 60 seconds

Vacuum Per Cylinder



Low vacuum on cylinder #2

Comprehensive mechanical testing includes vacuum, pressure and ignition KV

MTS 5200 Kits

Scope/Engine Diagnostics

MTS 5200 DSO and DVOM Engine Analyzer

Part No. F00K108032

The MTS 5200 Engine Analyzer provides all the power and functionality of yesterday's "big-box" analyzers in a handheld, portable unit. Start with the base kit and add more power and functionality to suit your needs. The base kit includes the software and leads for the 4-channel oscilloscope and digital multimeter.

4-channel oscilloscope

- Glitch capture
- Cursor measurement
- Signal finder
- Waveform library
- ±200 volt range
- Waveform storage
- AC coupling
- Component pre-selects
- Cylinder firing trigger
- Pre-trigger data

DMM with graphing capabilities

- Voltage (AC/DC)
- Continuity
- Current (AC/DC)
- Pulse width
- Duty cycle
- Frequency
- RPM
- Resistance
- Temperature
- Diode test

MTS 5200 Engine Analyzer Ignition Upgrade Kit

Part No. 01002884

Upgrade your MTS 5200 Engine Analyzer to include ignition analysis capabilities for 8-cylinder vehicles.

Supported systems

- Primary and secondary ignition
- Distributor ignition (DI)
- DI integral coil
- Electronic ignition (EI) or DIS
- Coil-on-plug ignition (COP)
- Coil-near-plug ignition (CNP)

MTS 5200 Vacuum/ Pressure/FCI Upgrade Kit

Part No. 01002883

Unleash the full potential of the MTS 5200 with this upgrade kit giving you the following capabilities:

- Mechanical tests
- Charging system tests
- Failed cylinder ID
- Vacuum/mechanical testing
- Ignition power balance
- Fuel system tests
- Intrusive cylinder balance
- Cranking KV

Additional accessories for your MTS 5200

01002882	Current Probe Kit (includes high and low current clamps)
F00K104944	Coil on Plug (COP) Flex Wand
F00K104954	Coil on Plug (COP) Loop Probe Kit

FSA 740/720

Engine Analyzers

FSA 740 Engine Diagnostic System — a complete solution for today's complicated vehicles.

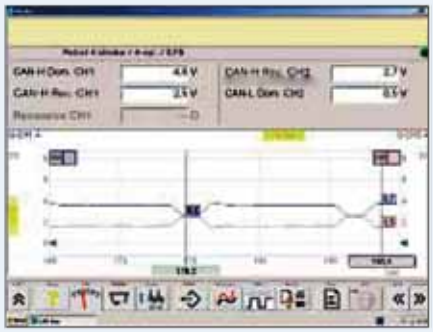
Complete System for Effective Diagnostics

The FSA 740 Diagnostic System offers professional automotive service centers a complete diagnostic system, which includes:

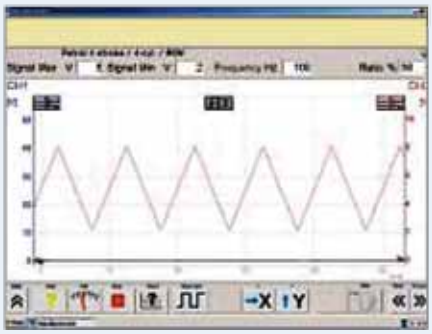
- FSA 720 Measurement Module
- PC
- Printer
- Easy to read flat panel display
- Durable roll-around cart perfectly suited for the shop environment

Innovative Application

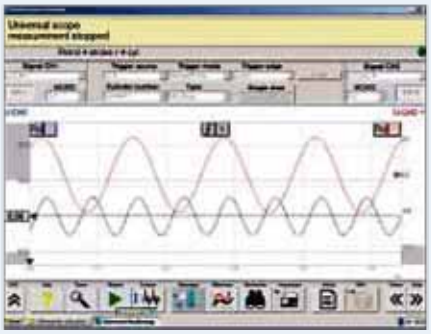
Performance test of CAN bus



Signal generator for simulating sensor signals



High performance oscilloscope with scanning rates up to 50MHz



FSA 740/720

Essential Features

- Measurement module with convenient sensor and cable storage
- Signal generator for simulation of sensor signals
- Component testing for pinpoint error diagnosis
- Quick and reliable error detection
- KTS 570 for scan diagnostics can be integrated for even greater functionality

Classical Engine Test
Handles the classical engine test, for measuring engine-related signals

Component Testing
Offers a large number of new and efficient applications with comprehensive software support

Extensive Sensor Equipment
Ten sensor slots allow effective work without continuous sensor changing

F00E900056	FSA 740 – Complete Engine Diagnostic System
F00E900055*	FSA 720 – Diagnostic Measurement Module
F00E900057	Panasonic Tablet PC with DVD

*A PC or laptop is required to operate the FSA 720

Optional Shop-Rugged Tablet PC

The FSA 720 provides all the functionality of the FSA 740 at an affordable price.

Signal Generator
- New for the FSA Series is a signal generator that quickly permits testing of sensors

Component Testing
- For pinpoint fault diagnosis, the FSA component tests save valuable time and help avoid guess-work and costly component replacement

Engine Tests
- The FSA Series measurement module with its extensive range of sensors handles all the functions of conventional engine and ignition analyzers—including primary and secondary ignition signals, triggering signals for firing module, RPM, cylinder 1 synchronization, and setting the moment of ignition

High-performance Oscilloscope
- The scanning rates of the new universal oscilloscope reach up to 50 MHz!

MMD 540H Hybrid Multimeter

Digital Multimenter

The Bosch MMD 540H Hybrid Multimeter is a CAT safety rated, auto ranging digital multimeter designed for use in diagnostics of electronic circuits. Whatever your shop services automotive, fleet, motorcycle, marine or small engine the MMD 540H has the capability to keep up with your business.

The MMD 540H offers:

- CAT III (1000v) safety rating for hybrid vehicle circuits.
- Peak, Min / Max readings as fast as 1 millisecond
- Higher amperage test ranges, up to 20 Amps
- Inductive RPM clamp for conventional and DIS ignition systems
- Fused diagnostic test leads for safe trouble shooting (up to 20 amps) at the circuit fuse location.
- K-Type thermocouple for quick temperature measurement
- Large LCD display with bright backlighting and auto shutdown
- Tri-lingual users manual on CD (English, Spanish, French)
- Rugged nylon case with handle for efficient storage.

The Bosch MMD 540H Hybrid Multimeter kit includes:

- Nylon storage case with handle
- Extra long test leads
- Inductive RPM clamp
- Additional fused diagnostic test leads for ATC and Mini fuse types
- K-type thermocouple
- 9 volt battery
- CD based, Tri-lingual users guide

F00E900101 MMD 540H – Hybrid Multimeter Kit

BAT 151

Electrical System Diagnostic Analyzer

Electrical system diagnostic analyzer with advanced battery and starter system testing.

Complete System for Effective Diagnostics

The BAT 151 is a versatile, reliable and easy-to-use electrical diagnostic tool for today's modern automotive service center.

Expandable Electrical Diagnostic Platform

Advanced Electrical System Diagnostics Featuring Digital Signal Processing

- Digital Signal Processing (DSP) provides the capability to digitize the measured alternator output voltage and evaluate the spectral content of the signal to provide a detailed and accurate analysis
- Provides the ability to analyze the amplitude level and frequency of the diode ripple pattern for improved accuracy and identification of open or shorted diodes and open phase conditions

Enhanced Starter Diagnostics Including Optional Amp Clamp

- Combines voltage drop with amps measurements to fully diagnose all parts of the starting system
- Output includes current draw graph and voltage drop graph when using optional amp-clamp

Conductance Cable Verification Test

- Uses conductance technology to calculate the voltage drop across the positive (+) and negative (-) sides of any circuit and total circuit drop without running the engine
- Preset tests for battery ground, starter and alternator circuits, and user-defined test are available

Dynamic Conductance Battery Testing Technology

- Combines direct temperature measurement with deep scan technology to improve accuracy and decisiveness
- Advanced preventative maintenance algorithms for identifying batteries as they approach end-of-life

Essential Features

- Enhanced starter system testing
- Improved alternator diagnostics
- Advanced battery testing
- Cable drop verification testing
- Expandable platform — eliminate costly tool obsolescence

A
Data Transmitter
Sends the test results to an optional IR printer

B
6-Pin Connector
Connection for the battery test cable

C
Accessories Port
An RJ45 connector with a release lever for accessory test cables

D
Thermal Printer
An optional integrated thermal printer

E
Backlit Display
128 X 64 pixel graphic backlit display

F
LED
Lights in conjunction with beeping alarm to indicate transitions and warnings

G
Control Panel
Keypad and power button

H
USB Connector
This mini USB allows for future accessories

I
DB-9 Port
This port allows for future accessories

J
Spring-loaded SD Card Slot
Allows for test data storage and software upgrades

F00E900066	BAT 151 – (Base unit) Electrical System Diagnostic Analyzer and Battery Tester
F00E900067	Optional Integrated Printer
F00E900068	Optional Amp Clamp
F00E900069	Cable Drop Cable Set
F00E900070	DMM Junction Box and Probe Set
F00E900235	BAT 151 Comptete Package (all above part numbers)

Expandable Electrical Diagnostic Platform

Complete Multimeter with Scope Mode

- AC/DC volts
- Scope
- Volts/Amps mode
- Temperature
- Diode test
- Ohm Meter
- AC/DC Amps

Enhanced Communication Capabilities

- USB port for expansion/communication options
- SD card read/write allows for record keeping, data transfer and upgrades

Program Management Tools

- Password protected administrative mode
- User ID system to help drive and manage product use
- Enhanced counters report testing data, including lifetime use, results dispersion, battery tests vs. full system tests, and tests per user

Improved User Interface

- Large graphical screen, hot keys, and full alpha-numerical keypad
- Flexible design for mounting to a counter or cart

MTS 4100 NVH Analyzer

Noise, Vibration, and Harshness Diagnostics

Handheld solution for all noise vibration and harshness related problems

INTEGRATES WITH SFP SHOP FOREMAN PRO

The Answer to All NVH Related Problems

A revolutionary platform designed for real-time diagnosis and repair of vehicle noise, vibration and harshness problems.

01002749	MTS 4100 – Noise, Vibration and Harshness Analyzer
01002717-001	MTS 4100 – Driveshaft Balance Kit

Essential Features

- Measures amount of vehicle vibration and shake
- Ideal for road tests using driver-operated remote trigger switch
- Identifies the likely cause of vibration
- Suggests corrective action when needed
- Allows for on-vehicle system balancing of the driveline
- OBDII data is updated at a rate of 0.5 second intervals
- Save up to 146 road test events with Compact Flash card, each event 30 seconds in length (and 24 events without Compact Flash card)
- Strobe light capability for isolation of vibration source
- Correlates data from vehicle's computer system with vibration and noise data

What Makes the MTS 4100 NVH Analyzer Different

Dynamic On-Vehicle Driveshaft Balancing

- Single-plane and dual-plane balance
- Step-by-step balancing procedures
- Graphical display of balance weight positioning

Graphical User Interface Supports

- Bar chart display identifying vibrations associated with principal rotating systems
- Principal component display indicates most probable cause of vibration
- Waterfall (3D) display (frequency vs. vibration, level vs. time)
- Spectral display (frequency vs. vibration level)

Driveshaft balancer results display graphically shows where to position the balancing weight on the driveshaft

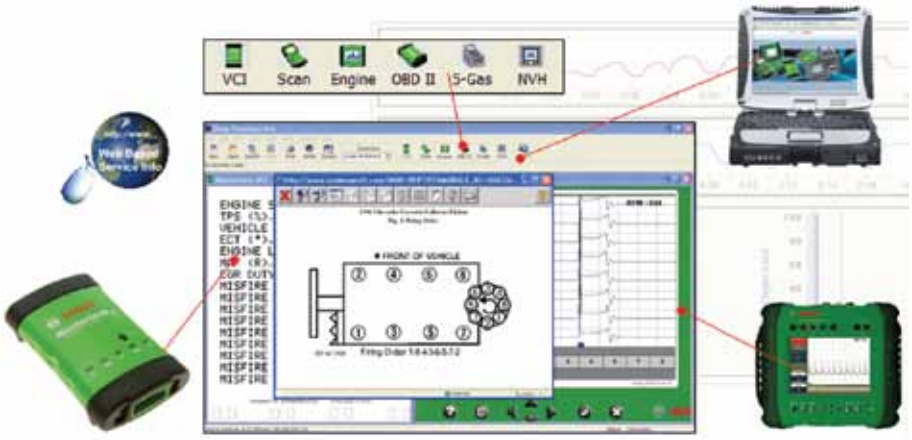
Frequency spectrum display indicates vibration vs. frequency level in a mode similar to the familiar oscilloscope-type display with a moveable cursor.

Shop Foreman Pro

Bosch Diagnostic Tools + Shop Foreman Pro = Shop Efficiency and Productivity

Shop Foreman Pro is an information portal designed to streamline diagnostics, web based information, J2534 programming and diagnostic record management in the service bay.

Shop Foreman Pro is a PC application containing a fully integrated interface that allows you to view and analyze data from one or more diagnostic testers in a variety of highly useful formats not available on the testers themselves. Data can be captured, annotated, and saved to provide clear, graphical representations of problems and their solutions. Shop Foreman Pro's built-in web browser allows the simultaneous viewing of web based service information with diagnostic data.

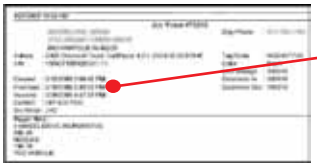


Shop Foreman Pro works with Mastertech VCI, MTS 3100 Mastertech, MTS 5200 Engine analyzer, Flasher Pro, MTS 1100 Gas analyzer, and the MTS4100 NVH. Shop Foreman Pro contains a Global OBD II function which interfaces with other J2534-compliant devices to display ECU data on a PC monitor.

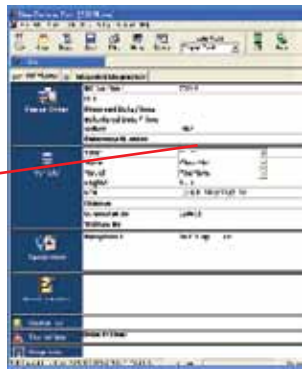
Integrate with Shop Management System

Shop Foreman creates a repair order for the technician to record information relevant to the customer, vehicle, diagnosis and repair.

The repair order stores the data that you input and makes a searchable database. Entering the RO number from any shop management system creates a reference for customer history.



Repair Order



Web Browser

F00E900036 Shop Foreman Pro

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